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L13           1 SEA ABB=ON  PLU=ON  L12
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L14          83 SEA ABB=ON  PLU=ON  ("BEYER T"/AU OR "BEYER T A"/AU) OR "BEYER
                TH"/AU OR ("BEYER THOMAS"/AU OR "BEYER THOMAS A"/AU OR "BEYER
                THOMAS ARTHUR"/AU)
L15         164 SEA ABB=ON  PLU=ON  CHAMBERS R/AU OR  CHAMBERS R J/AU OR
                CHAMBERS ROBERT/AU OR CHAMBERS ROBERT J/AU OR CHAMBERS ROBERT
                JAMES/AU
L16          69 SEA ABB=ON  PLU=ON  LAM K/AU OR LAM K T/AU OR LAM KELVIN ?/AU
L17        1264 SEA ABB=ON  PLU=ON  LI M ?/AU OR LI MEI ?/AU
L18          36 SEA ABB=ON  PLU=ON  "MORRELL ANDREW"/AU OR ("MORRELL ANDREW
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L19         433 SEA ABB=ON  PLU=ON  THOMPSON D/AU OR THOMPSON D D/AU OR
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L24           1 SEA ABB=ON  PLU=ON  L18 AND L19
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                D STAT QUE L25
                D IBIB ABS HITSTR L25 1-4



     FILE HCAPLUS

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     FILE COVERS 1907 - 25 Sep 2007  VOL 147 ISS 14
     FILE LAST UPDATED: 24 Sep 2007  (20070924/ED)

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     FILE REGISTRY
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 SEP 2007 HIGHEST RN 947820-54-4
DICTIONARY FILE UPDATES: 24 SEP 2007 HIGHEST RN 947820-54-4

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http://www.cas.org/support/stngen/stndoc/properties.html

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FILE COVERS 1907 - 25 Sep 2007 VOL 147 ISS 14
FILE LAST UPDATED: 24 Sep 2007 (20070924/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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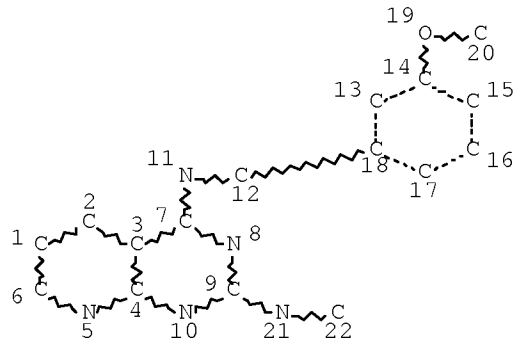

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STEREO ATTRIBUTES: NONE
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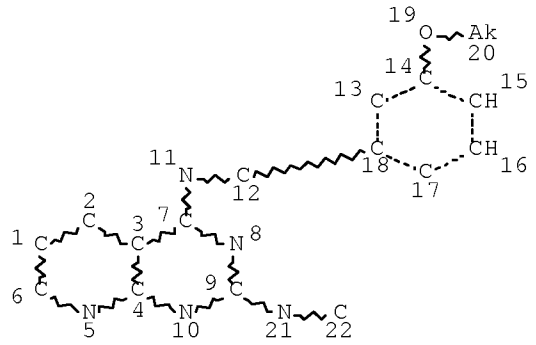

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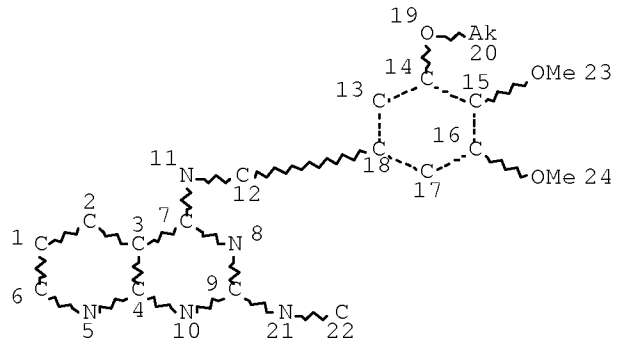

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L13 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:588963 HCAPLUS Full-text
DOCUMENT NUMBER: 143:115560
TITLE: Preparation of pyrido[2,3-d]pyrimidine-2,4-diamines as PDE-2 inhibitors
INVENTOR(S): Beyer, Thomas Arthur; Chambers, Robert James; Lam, Kelvin; Li, Mei; Morrell, Andrew Ian; Thompson, David Duane
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061497	A1	20050707	WO 2004-IB4013	20041206

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

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EP 1697356	A1	20060906	EP 2004-801323		20041206
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NO 2006003231	A	20060711	NO 2006-3231		20060711
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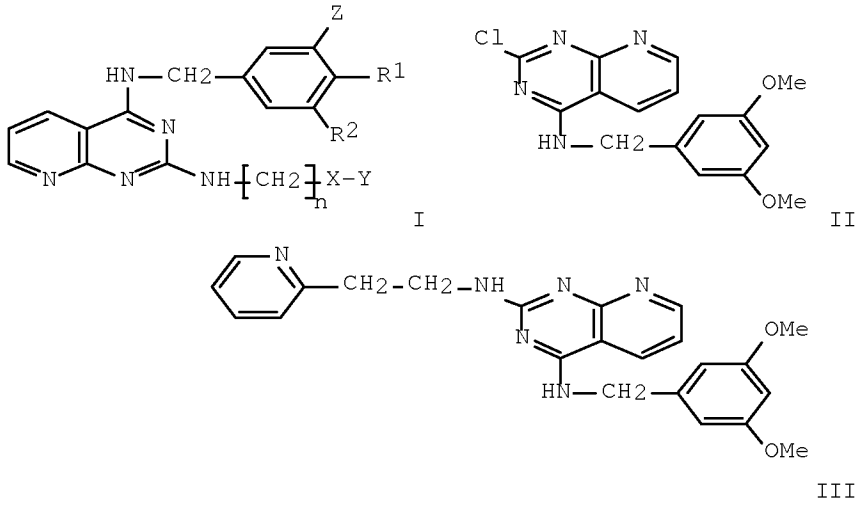

AB Title compds. I [Z = O-alkyl; R1, R2 = H, OCH3 with provisos; n = 1-4; X = a bond, O, S, etc.; Y = benzoxazolyl, benzothiazolyl, benzofurazanyl, etc.] and their pharmaceutically acceptable salts were prepared For example, aminoarom. substitution of chloropyrimide II and 2-(2-aminoethyl)pyridine afforded pyrido[2,3-d]pyrimidine III in 40% yield. In PDE 2 inhibition assays, 4 - examples of compds. I exhibited IC50 values <50 nM.

IT 857521-01-8P 857521-02-9P 857521-03-0P
857521-04-1P 857521-05-2P 857521-06-3P
857521-07-4P 857521-08-5P 857521-09-6P
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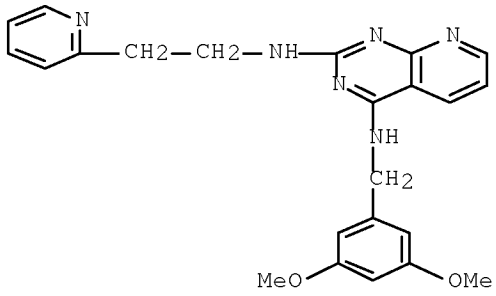
857521-31-4P 857521-32-5P 857521-33-6P
857521-34-7P 857521-35-8P 857521-36-9P
857521-37-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrido[2,3-d]pyrimidine-2,4-diamines as PDE-2 inhibitors)

RN 857521-01-8 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3,5-dimethoxyphenyl)methyl]-N2-[2-(2-pyridinyl)ethyl]- (CA INDEX NAME)



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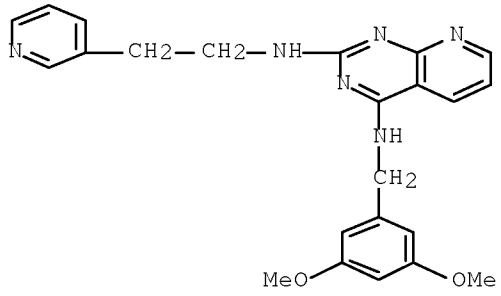

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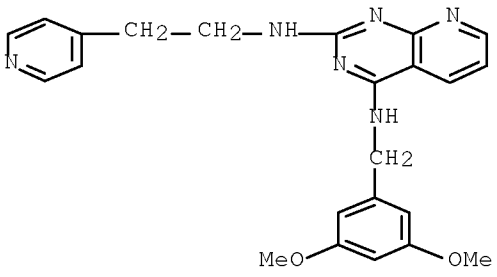

RN 857521-04-1 HCAPLUS
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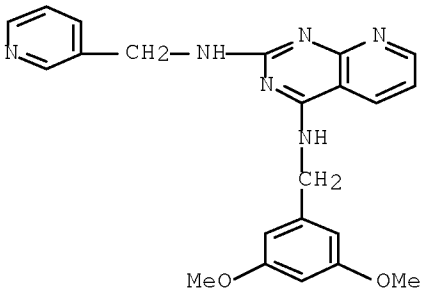

RN 857521-05-2 HCAPLUS
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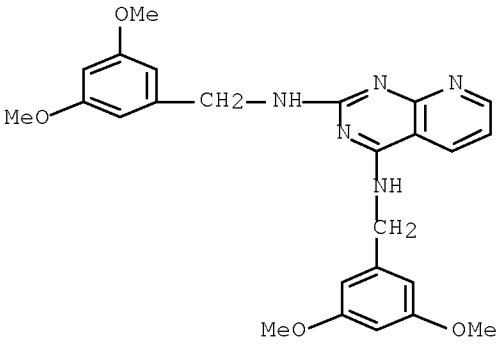

RN 857521-06-3 HCAPLUS
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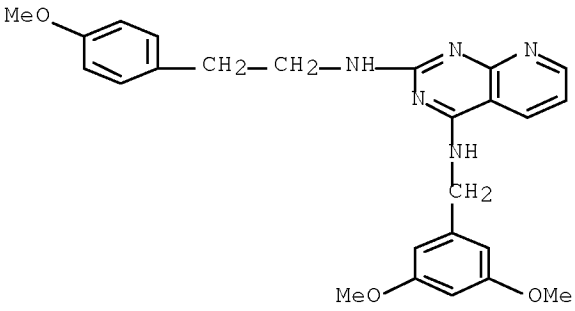

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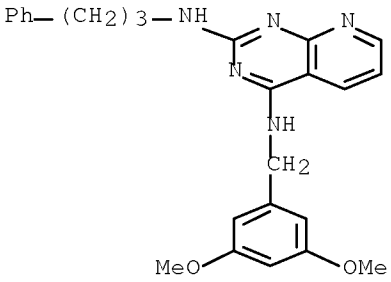

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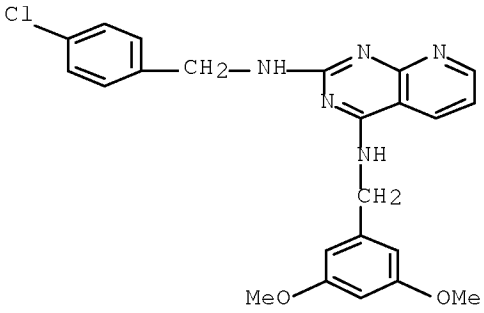

RN 857521-09-6 HCAPLUS
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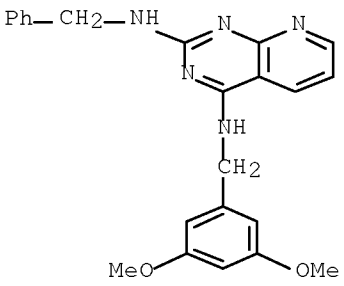

RN 857521-10-9 HCAPLUS
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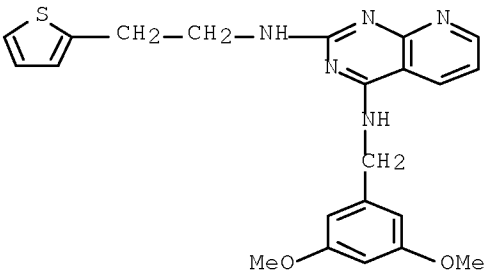

RN 857521-11-0 HCAPLUS
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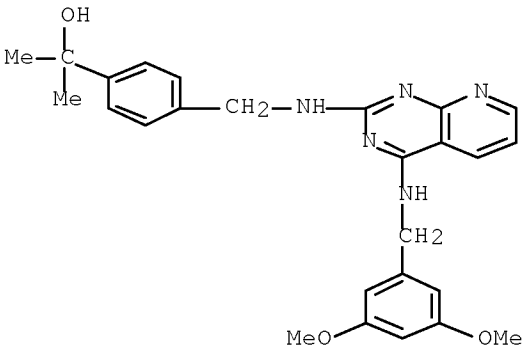

RN 857521-12-1 HCAPLUS
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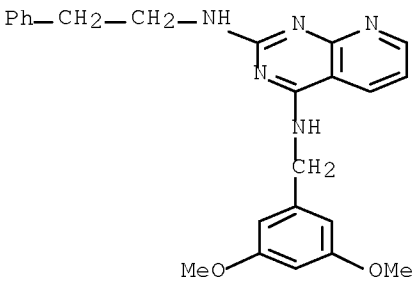

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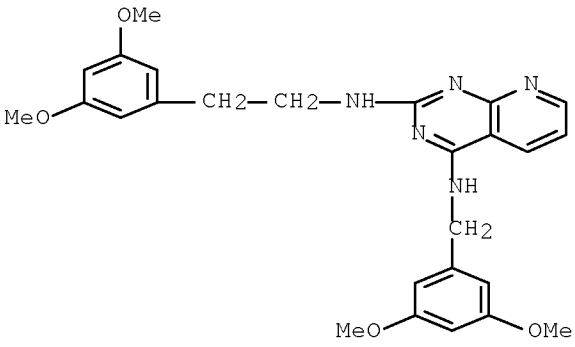

RN 857521-14-3 HCAPLUS
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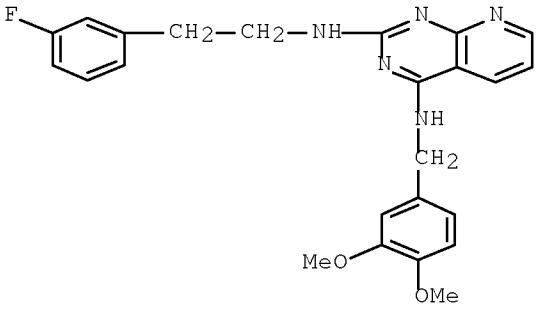

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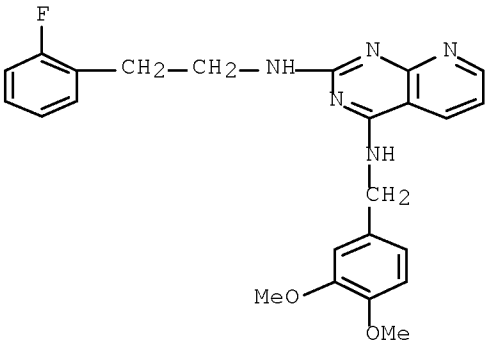

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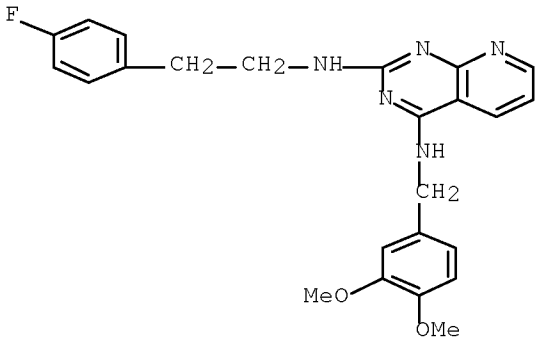

RN 857521-17-6 HCAPLUS
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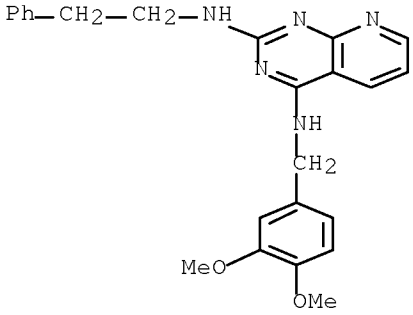

RN 857521-18-7 HCAPLUS
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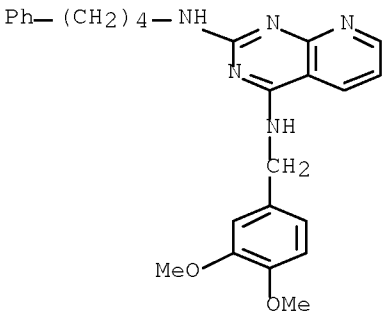

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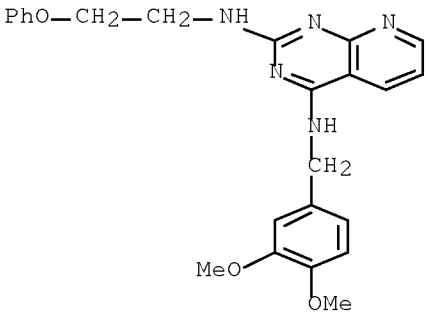

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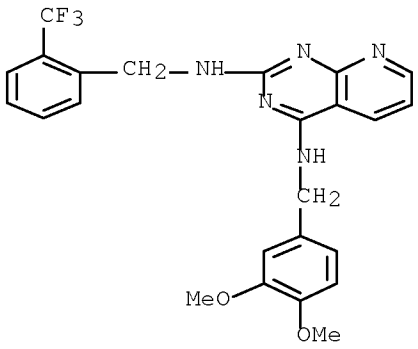

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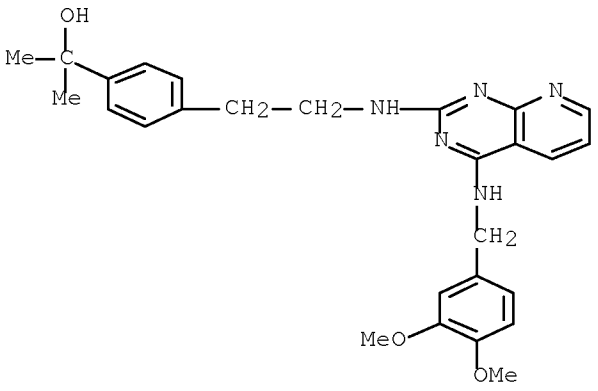
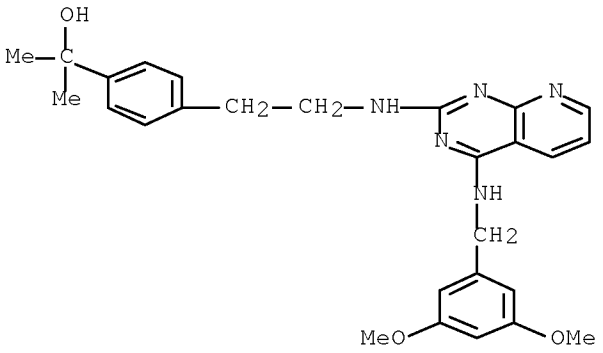
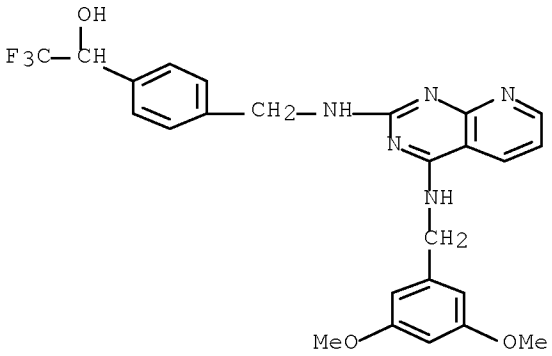


RN 857521-22-3 HCAPLUS
CN Benzenemethanol, 4-[2-[[4-[[(3,5-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]ethyl]-α,α-dimethyl- (CA INDEX NAME)

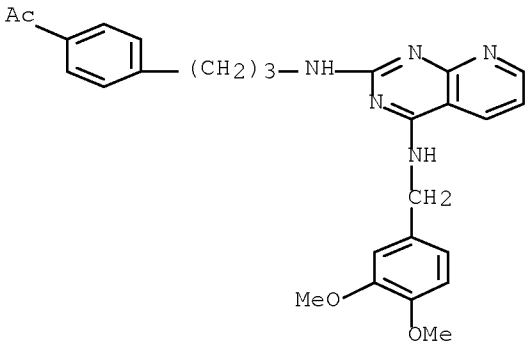


RN 857521-23-4 HCAPLUS
CN Benzenemethanol, 4-[[[4-[[(3,5-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]methyl]-α-(trifluoromethyl)- (CA INDEX NAME)



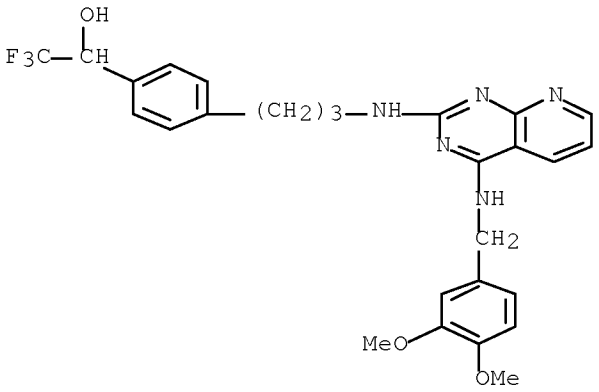
RN 857521-24-5 HCAPLUS

CN Ethanone, 1-[4-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]phenyl]- (CA INDEX NAME)



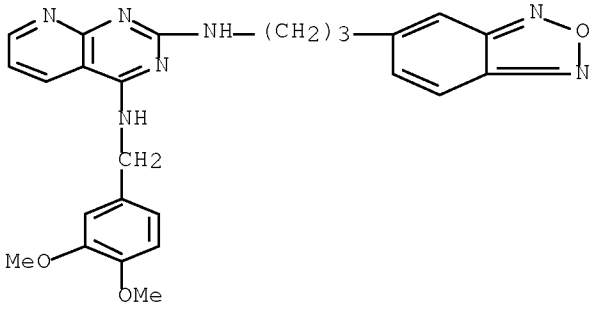
RN 857521-25-6 HCAPLUS

CN Benzenemethanol, 4-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]-α-(trifluoromethyl)- (CA INDEX NAME)

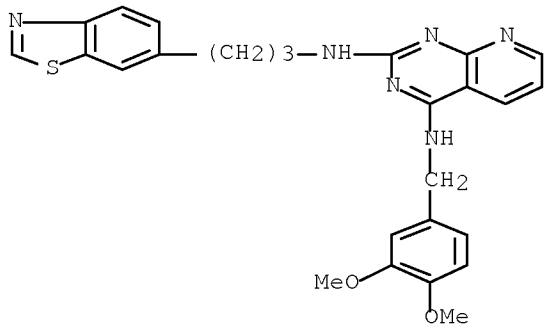


RN 857521-26-7 HCAPLUS

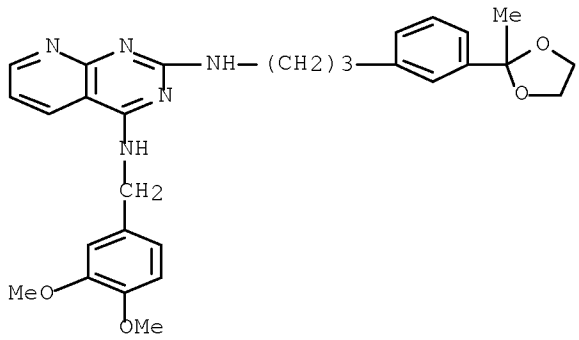
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N2-[3-(2,1,3-benzoxadiazol-5-yl)propyl]-N4-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)



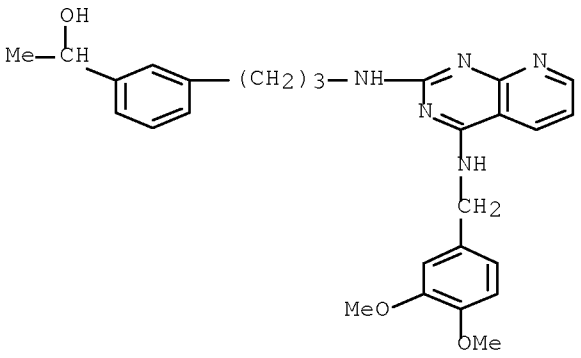
RN 857521-27-8 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N2-[3-(6-benzothiazolyl)propyl]-N4-[(3,4-dimethoxyphenyl)methyl]- (CA INDEX NAME)



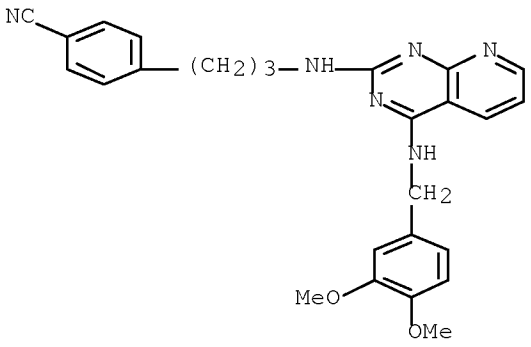
RN 857521-28-9 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3,4-dimethoxyphenyl)methyl]-N2-[3-[3-(2-methyl-1,3-dioxolan-2-yl)phenyl]propyl]- (CA INDEX NAME)



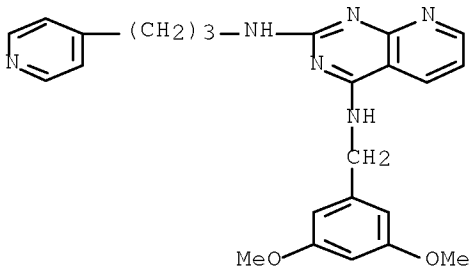
RN 857521-29-0 HCAPLUS
CN Benzenemethanol, 3-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]-α-methyl- (CA INDEX NAME)



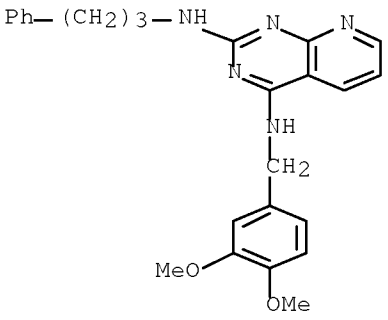
RN 857521-30-3 HCAPLUS
CN Benzonitrile, 4-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]- (CA INDEX NAME)



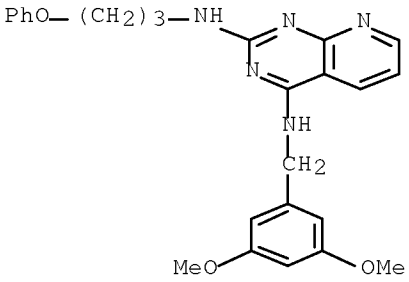
RN 857521-31-4 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3,5-dimethoxyphenyl)methyl]-N2-[3-(4-pyridinyl)propyl]- (CA INDEX NAME)



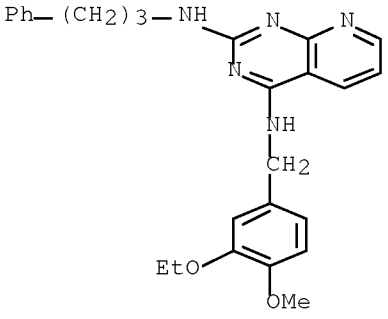
RN 857521-32-5 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3,4-dimethoxyphenyl)methyl]-N2-(3-phenylpropyl)- (CA INDEX NAME)



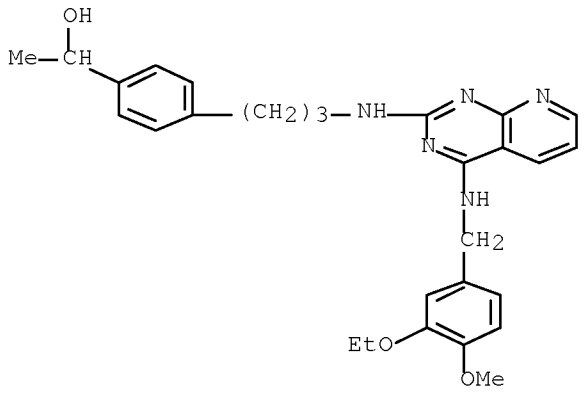
RN 857521-33-6 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3,5-dimethoxyphenyl)methyl]-N2-(3-phenoxypropyl)- (CA INDEX NAME)



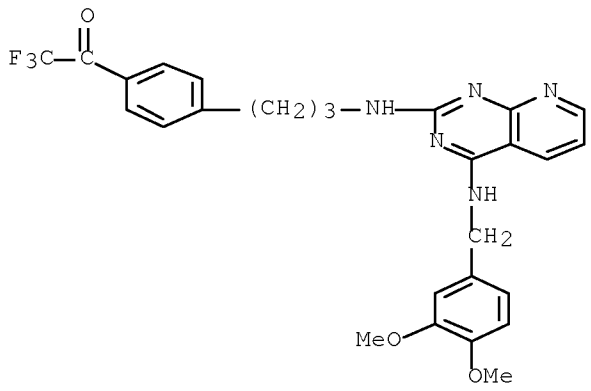
RN 857521-34-7 HCAPLUS
CN Pyrido[2,3-d]pyrimidine-2,4-diamine, N4-[(3-ethoxy-4-methoxyphenyl)methyl]-N2-(3-phenylpropyl)- (CA INDEX NAME)



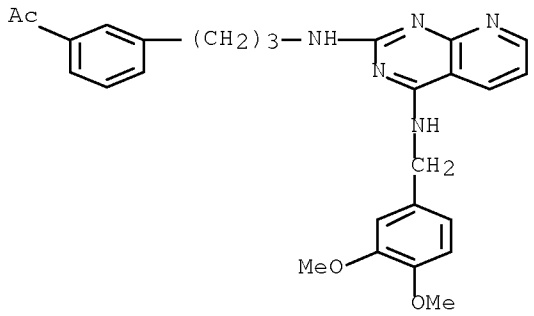
RN 857521-35-8 HCAPLUS
CN Benzenemethanol, 4-[3-[[4-[[(3-ethoxy-4-methoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]-α-methyl- (CA INDEX NAME)



RN 857521-36-9 HCAPLUS
CN Ethanone, 1-[4-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]phenyl]-2,2,2-trifluoro- (CA INDEX NAME)



RN 857521-37-0 HCAPLUS
CN Ethanone, 1-[3-[3-[[4-[[(3,4-dimethoxyphenyl)methyl]amino]pyrido[2,3-d]pyrimidin-2-yl]amino]propyl]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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                 A"/AU OR "BEYER THOMAS ARTHUR"/AU)
L15          164 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CHAMBERS R/AU OR  CHAMBERS R
                 J/AU OR CHAMBERS ROBERT/AU OR CHAMBERS ROBERT J/AU OR CHAMBERS
                 ROBERT JAMES/AU
L16           69 SEA FILE=HCAPLUS ABB=ON  PLU=ON  LAM K/AU OR LAM K T/AU OR LAM
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L17         1264 SEA FILE=HCAPLUS ABB=ON  PLU=ON  LI M ?/AU OR LI MEI ?/AU
L18           36 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "MORRELL ANDREW"/AU OR
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L19          433 SEA FILE=HCAPLUS ABB=ON  PLU=ON  THOMPSON D/AU OR THOMPSON D
                 D/AU OR "THOMPSON DAVID"/AU OR THOMPSON DAVID D?/AU
L20            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L14 AND (L15 OR L16 OR L17 OR
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L25  ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2005:1341994  HCAPLUS  Full-text
DOCUMENT NUMBER:          144:145269
TITLE:                    A new chemical tool for exploring the role of the
                          PDE4D isozyme in leukocyte function
AUTHOR(S):                Chambers, Robert J.; Abrams, Kristin;
                          Castleberry, Tessa A.; Cheng, John B.; Fisher, Douglas
                          A.; Kamath, Ajith V.; Marfat, Anthony; Nettleton,
                          David O.; Pillar, Joann D.; Salter, Eben D.; Sheils,
                          Alissa L.; Shirley, John T.; Turner, Claudia R.;
                          Umland, John P.; Lam, Kelvin T.
CORPORATE SOURCE:         Groton Laboratories, Pfizer, Inc., Groton, CT, 06340,
                          USA
SOURCE:                   Bioorganic & Medicinal Chemistry Letters (2006),
                          16(3), 718-721
                          CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:                Elsevier B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 144:145269
AB    A nicotinamide derivative is a potent and selective inhibitor of the cAMP
      phosphodiesterase 4D isoenzyme and as a chemical tool selectively blocks
      eosinophil mediator release and chemotaxis thus linking the role of PDE4D to
      eosinophil function.
REFERENCE COUNT:          37    THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1251608 HCAPLUS Full-text
DOCUMENT NUMBER: 144:100367
TITLE: A new chemical tool for exploring the physiological function of the PDE2 isozyme
AUTHOR(S): Chambers, Robert J.; Abrams, Kristin; Garceau, Norman Y.; Kamath, Ajith V.; Manley, Christopher M.; Lilley, Susan C.; Otte, Douglas A.; Scott, Dennis O.; Sheils, Alissa L.; Tess, David A.; Vellekoop, A. Samuel; Zhang, Yan; Lam, Kalvin T.
CORPORATE SOURCE: Research Technology Center, Pfizer, Inc., Cambridge, MA, 02139, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2006), 16(2), 307-310
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:100367
AB Oxindole (2) is a potent and selective PDE2 inhibitor with a favorable ADME, physiochem. and pharmacokinetic profile to allow for use as a chemical tool in elucidating the physiol. role of PDE2.
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:588963 HCAPLUS Full-text
DOCUMENT NUMBER: 143:115560
TITLE: Preparation of pyrido[2,3-d]pyrimidine-2,4-diamines as PDE-2 inhibitors
INVENTOR(S): Beyer, Thomas Arthur; Chambers, Robert James; Lam, Kelvin; Li, Mei; Morrell, Andrew Ian; Thompson, David Duane
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061497	A1	20050707	WO 2004-IB4013	20041206
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

AU 2004303609	A1	20050707	AU 2004-303609	20041206
CA 2549510	A1	20050707	CA 2004-2549510	20041206
EP 1697356	A1	20060906	EP 2004-801323	20041206
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
CN 1894245	A	20070110	CN 2004-80037674	20041206
BR 2004017663	A	20070403	BR 2004-17663	20041206
JP 2007513996	T	20070531	JP 2006-544574	20041206
NL 1027787	A1	20050621	NL 2004-1027787	20041215
NL 1027787	C2	20060309		
US 2007135457	A1	20070614	US 2006-595766	20060510
IN 2006DN02850	A	20070810	IN 2006-DN2850	20060519
MX 2006PA06777	A	20060823	MX 2006-PA6777	20060615
NO 2006003231	A	20060711	NO 2006-3231	20060711
PRIORITY APPLN. INFO.:			US 2003-529994P	P 20031216
			WO 2004-IB4013	W 20041206

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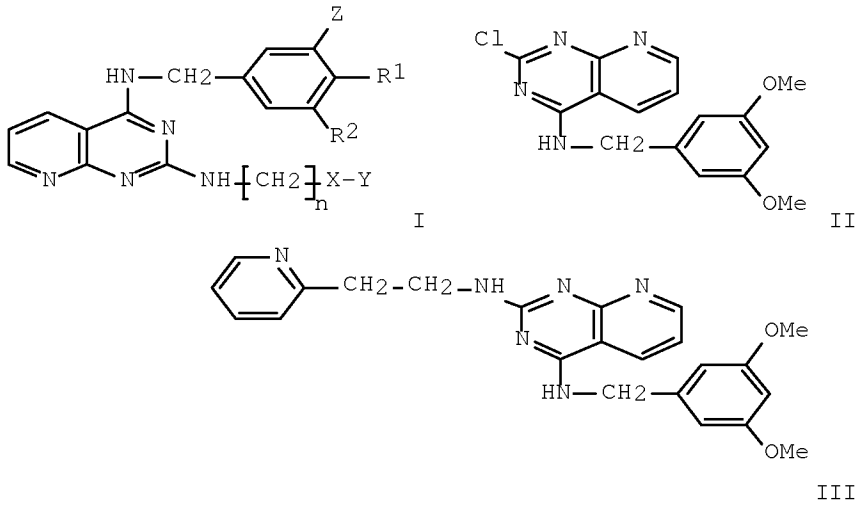

AB Title compds. I [Z = O-alkyl; R1, R2 = H, OCH3 with provisos; n = 1-4; X = a bond, O, S, etc.; Y = benzoxazolyl, benzothiazolyl, benzofurazanyl, etc.] and their pharmaceutically acceptable salts were prepared For example, aminoarom. substitution of chloropyrimide II and 2-(2-aminoethyl)pyridine afforded pyrido[2,3-d]pyrimidine III in 40% yield. In PDE 2 inhibition assays, 4 - examples of compds. I exhibited IC50 values <50 nM.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:409310 HCAPLUS Full-text

DOCUMENT NUMBER: 142:463708

TITLE: Preparation of oxindole derivatives and their use as phosphodiesterase type 2 inhibitors

INVENTOR(S): Chambers, Robert James; Lam, Kelvin

T.
PATENT ASSIGNEE(S): Pfizer Products Inc., USA
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005041957	A1	20050512	WO 2004-IB3404	20041018

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-515406P P 20031029
OTHER SOURCE(S): CASREACT 142:463708; MARPAT 142:463708
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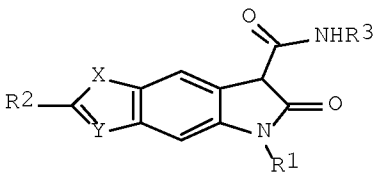

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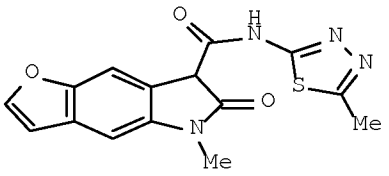

II

AB The present invention provides compds. I [R1 = alkyl; R2 = H, alkyl; R3 = thiazolyl, isothiazolyl, thiadiazolyl, etc.; X = S, O; Y = C, N], methods and kits for treatment of disease states or disorders mediated by PDE2. Syntheses of over 10 compds. I is given. Thus, amidation of Et 5-methyl-6-oxo-6,7-dihydro-5H-1-oxa-5-aza-s-indacene-7-carboxylate with 2-amino-5-methyl-1,3,4-thiadiazole afforded 25% II which showed IC50 of <0.2 μM against PDE2.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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